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SEQUENCE LISTING

<110> GLYNNE, RICHARD J. HONG, NANCY AI-HUA NELMS, KEATS A. WU, HUA

<120> SENSIN POLYPEPTIDES, ENCODING NUCLEIC ACIDS, MUTATIONS, AND METHODS OF THEIR IDENTIFICATION AND USE

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- Ser Leu Leu Gln Leu Leu Phe Asp Arg Ser Arg Lys Asn Gly Thr Leu 1060 1065 1070
- Trp Ser Leu Ile Ile Ala Lys Leu Ile Leu Ser Arg Ser Ile Ser Ser 1075 1080 1085
- Asp Glu Val Lys Pro Tyr Tyr Lys Arg Lys Glu Ser Phe Pro Leu 1090 1095 1100
- Thr Glu Gly Ser Leu His Thr Ile Gln Ser Leu Cys Pro Phe Leu Ser 1105 1110 1115 1120
- Lys Glu Glu Lys Lys Glu Phe Ser Ala His Ser Ile Pro Ala Phe Leu 1125 1130 1135
- Gly Trp Thr Lys Glu Asp Leu Cys Ser Ile Asn Gly Ala Phe Gly His 1140 1145 1150
- Leu Ala Ile Phe Asn Ser Cys Leu Gln Thr Arg Ser Ile Asp Asp Lys 1155 1160 1165
- Gln Leu Leu His Gly Ile Leu Lys Ile Ile Thr Ser Trp Arg Lys Gln 1170 1175 1180
- His Glu Asp Ile Phe Leu Phe Ser Cys Asn Leu Ser Glu Ala Ser Pro 1185 1190 1195 1200
- Glu Val Leu Gly Leu Asn Ile Glu Ile Met Arg Phe Leu Ser Leu Phe 1205 1210 1215
- Leu Lys His Cys Ala Tyr Pro Leu Pro Leu Ala Asp Ser Glu Trp Asp 1220 1225 1230
- Phe Ile Met Cys Ser Met Leu Ala Trp Leu Glu Thr Thr Ser Glu Asn 1235 1240 1245
- Gln Ala Leu Tyr Ser Val Pro Leu Val Gln Leu Phe Ala Cys Val Ser 1250 1255 1260
- Phe Asp Leu Ala Cys Asp Leu Cys Ala Phe Phe Asp Ser Ile Thr Pro 1265 1270 1275 1280

- Asp Ile Val Asp Asn Leu Pro Val Asn Leu Ile Ser Glu Trp Lys Glu 1285 1290 1295
- Phe Phe Ser Lys Gly Ile His Ser Leu Leu Pro Leu Leu Val Asn 1300 1305 1310
- Ala Ile Gly Glu Asn Lys Asp Leu Ser Glu Thr Ser Phe Gln Asn Ala 1315 1320 1325
- Met Leu Lys Pro Met Cys Glu Thr Leu Thr Tyr Ile Ser Lys Asp Gln 1330 1335 1340
- Leu Leu Ser His Lys Leu Pro Ala Arg Leu Val Ala Ser Gln Lys Thr 1345 1350 1355 1360
- Asn Leu Pro Glu His Leu Gln Thr Leu Leu Asn Thr Leu Thr Pro Leu 1365 1370 1375
- Leu Leu Phe Arg Ala Arg Pro Val Gln Ile Ala Ala Tyr His Met Leu 1380 1385 1390
- Cys Lys Leu Met Pro Glu Leu Pro Gln His Asp Gln Asp Asn Leu Arg 1395 1400 1405
- Ser Tyr Gly Asp Glu Glu Glu Glu Pro Ala Leu Ser Pro Pro Ala Ala 1410 1415 1420
- Leu Met Ser Leu Leu Ser Ser Gln Glu Glu Leu Leu Glu Asn Val Leu 1425 1430 1435 1440
- Gly Cys Val Pro Val Gly Gln Ile Val Thr Val Lys Pro Leu Ser Glu 1445 1450 1455
- Asp Phe Cys Tyr Val Leu Gly Tyr Leu Leu Thr Trp Lys Leu Ile Leu 1460 1465 1470
- Thr Phe Phe Lys Ala Ala Ser Ser Gln Leu Arg Ala Leu Tyr Ser Met 1475 1480 1485
- Tyr Leu Arg Lys Thr Lys Ser Leu Asn Lys Leu Leu Tyr His Leu Phe 1490 1495 1500
- Arg Leu Met Pro Glu Asn Pro Thr Tyr Gly Glu Thr Ala Ile Glu Val 1505 1510 1515 1520
- Ser Ser Lys Asp Pro Lys Thr Phe Phe Thr Glu Glu Val Gln Leu Ser
- Ile Arg Glu Thr Ala Thr Leu Pro Tyr His Ile Pro His Leu Ala Cys 1540 1545 1550
- Ser Val Tyr His Met Thr Leu Lys Asp Leu Pro Ala Met Val Arg Leu 1555 1560 1565

Trp Trp Asn Ser Ser Glu Lys Arg Val Phe Asn Ile Val Asp Arg Phe 1570 1575 1580

Thr Ser Lys Tyr Val Ser Asn Val Leu Ser Phe Gln Glu Ile Ser Ser 1585 1590 1595 1600

Val Gln Thr Ser Thr Gln Leu Phe Asn Gly Met Thr Val Lys Ala Arg 1605 1610 1615

Ala Thr Thr Arg Glu Val Met Ala Thr Tyr Thr Ile Glu Asp Ile Val 1620 1625 1630

Ile Glu Leu Ile Ile Gln Leu Pro Ser Asn Tyr Pro Leu Gly Ser Ile 1635 1640 1645

Thr Val Glu Ser Gly Lys Arg Ile Gly Val Ala Val Gln Gln Trp Arg 1650 1655 1660

Asn Trp Met Leu Gln Leu Ser Thr Tyr Leu Thr His Gln Asn Gly Ser 1665 1670 1675 1680

Ile Met Glu Gly Leu Ala Leu Trp Lys Asn Asn Val Asp Lys Arg Phe 1685 1690 1695

Glu Gly Val Glu Asp Cys Met Ile Cys Phe Ser Val Ile His Gly Phe 1700 1705 1710

Asn Tyr Ser Leu Pro Lys Lys Ala Cys Arg Thr Cys Lys Lys Phe 1715 1720 1725

His Ser Ala Cys Leu Tyr Lys Trp Phe Thr Ser Ser Asn Lys Ser Thr 1730 1735 1740

Cys Pro Leu Cys Arg Glu Thr Phe Phe 1745 1750

<210> 6

<211> 1752

<212> PRT

<213> Homo sapiens

<400> 6

Met Gly Gly Lys Asn Lys Gln Arg Thr Lys Gly Asn Leu Arg Pro Ser 1 5 10 15

Asn Ser Gly Arg Ala Ala Glu Leu Leu Ala Lys Glu Gln Gly Thr Val 20 25 30

Pro Gly Phe Ile Gly Phe Gly Thr Ser Gln Ser Asp Leu Gly Tyr Val 35 40 45

Pro Ala Ile Gln Gly Ala Glu Glu Ile Asp Ser Leu Val Asp Ser Asp 50 55 60

- Phe Arg Met Val Leu Arg Lys Leu Ser Lys Lys Asp Val Thr Thr Lys 65 70 75 80
- Leu Lys Ala Met Gln Glu Phe Gly Thr Met Cys Thr Glu Arg Asp Thr 85 90 95
- Glu Thr Val Lys Gly Val Leu Pro Tyr Trp Pro Arg Ile Phe Cys Lys 100 105 110
- Ile Ser Leu Asp His Asp Arg Arg Val Arg Glu Ala Thr Gln Gln Ala 115 120 125
- Phe Glu Lys Leu Ile Leu Lys Val Lys Lys Gln Leu Ala Pro Tyr Leu 130 135 140
- Lys Ser Leu Met Gly Tyr Trp Leu Met Ala Gln Cys Asp Thr Tyr Thr 145 \ 150 \ 150 \ 160
- Pro Ala Ala Phe Ala Ala Lys Asp Ala Phe Glu Ala Ala Phe Pro Pro 165 170 175
- Ser Lys Gln Pro Glu Ala Ile Ala Phe Cys Lys Asp Glu Ile Thr Ser 180 185 190
- Val Leu Gln Asp His Leu Ile Lys Glu Thr Pro Asp Thr Leu Ser Asp 195 200 205
- Pro Gln Thr Val Pro Glu Glu Glu Arg Glu Ala Lys Phe Tyr Arg Val 210 215 220
- Val Thr Cys Ser Leu Leu Ala Leu Lys Arg Leu Leu Cys Leu Leu Pro 225 230 235 240
- Asp Asn Glu Leu Asp Ser Leu Glu Glu Lys Phe Lys Ser Leu Leu Ser 245 250 255
- Gln Asn Lys Phe Trp Lys Tyr Gly Lys His Ser Val Pro Gln Ile Arg 260 265 270
- Ser Ala Tyr Phe Glu Leu Val Ser Ala Leu Cys Gln Arg Ile Pro Gln 275 280 285
- Leu Met Lys Glu Glu Ala Ser Lys Val Ser Pro Ser Val Leu Leu Ser 290 295 300
- Ile Asp Asp Ser Asp Pro Ile Val Cys Pro Ala Leu Trp Glu Ala Val 305 310 315 320
- Leu Tyr Thr Leu Thr Thr Ile Glu Asp Cys Trp Leu His Val Asn Ala 325 330 335
- Lys Lys Ser Val Phe Pro Lys Leu Ser Thr Val Ile Arg Glu Gly Gly 340 345 350

- Arg Gly Leu Ala Thr Val Ile Tyr Pro Tyr Leu Leu Pro Phe Ile Ser 355 360 365
- Lys Leu Pro Gln Ser Ile Thr Asn Pro Lys Leu Asp Phe Phe Lys Asn 370 375 380
- Phe Leu Thr Ser Leu Val Ala Gly Leu Ser Thr Glu Arg Thr Lys Thr 385 390 395 400
- Ser Ser Leu Glu Ser Ser Ala Val Ile Ser Ala Phe Phe Glu Cys Leu 405 410 415
- Arg Phe Ile Met Gln Gln Asn Leu Gly Glu Glu Glu Ile Glu Gln Met 420 425 430
- Leu Val Asn Asp Gln Leu Ile Pro Phe Ile Asp Ala Val Leu Lys Asp 435 440 445
- Pro Gly Leu Gln His Gly Gln Leu Phe Asn His Leu Ala Glu Thr Leu 450 455 460
- Ser Ser Trp Glu Ala Lys Ala Asp Thr Glu Lys Asp Glu Lys Thr Ala 465 470 475 480
- His Asn Leu Glu Asn Val Leu Ile His Phe Trp Glu Arg Leu Ser Glu 485 490 495
- Ile Cys Val Ala Lys Ile Ser Glu Pro Glu Ala Asp Val Glu Ser Val 500 505 510
- Leu Gly Val Ser Asn Leu Leu Gln Val Leu Gln Lys Pro Lys Ser Ser 515 520 525
- Leu Lys Ser Ser Lys Lys Lys Asn Gly Lys Val Arg Phe Ala Asp Glu 530 535 540
- Ile Leu Glu Ser Asn Lys Glu Asn Glu Lys Cys Val Ser Ser Glu Gly 545 550 555 560
- Glu Lys Ile Glu Gly Trp Glu Leu Thr Thr Glu Pro Ser Leu Thr His 565 570 575
- Asn Ser Ser Gly Leu Leu Ser Pro Leu Arg Lys Lys Pro Leu Glu Asp 580 585 590
- Leu Val Cys Lys Leu Ala Asp Ile Ser Ile Asn Tyr Val Asn Glu Arg 595 600 605
- Lys Ser Glu Gln His Leu Arg Phe Leu Ser Thr Leu Leu Asp Ser Phe 610 615 620
- Ser Ser Ser Arg Val Phe Lys Met Leu Leu Gly Asp Glu Lys Gln Ser 625 630 635 640

- Ile Val Gln Ala Lys Pro Leu Glu Ile Ala Lys Leu Val Gln Lys Asn 645 650 655
- Pro Ala Val Gln Phe Leu Tyr Gln Lys Leu Ile Gly Trp Leu Asn Glu 660 665 670
- Asp Gln Arg Lys Asp Phe Gly Phe Leu Val Asp Ile Leu Tyr Ser Ala 675 680 685
- Leu Arg Cys Cys Asp Asn Asp Met Glu Arg Lys Lys Val Leu Asp Asp 690 695 700
- Leu Thr Lys Ala Cys Pro Ser Ser Asp Lys His Ala Leu Val Thr Pro 705 710 715 720
- Trp Leu Lys Gly Asp Ile Leu Gly Glu Lys Leu Val Asn Leu Ala Asp
 725 730 735
- Cys Leu Cys Asn Glu Asp Leu Glu Ser Arg Val Ser Ser Glu Ser His
 740 745 750
- Phe Ser Glu Arg Trp Thr Leu Leu Ser Leu Val Leu Ser Gln His Val
 755 760 765
- Lys Asn Asp Tyr Leu Ile Gly Asp Val Tyr Val Glu Arg Ile Ile Val 770 775 780
- Arg Leu His Glu Thr Leu Phe Lys Thr Lys Lys Leu Ser Glu Ala Glu 785 790 795 800
- Ser Ser Asp Ser Ser Val Ser Phe Ile Cys Asp Val Ala Tyr Asn Tyr 805 810 815
- Phe Ser Ser Ala Lys Gly Cys Leu Leu Met Pro Ser Ser Glu Asp Leu 820 825 830
- Leu Leu Thr Leu Phe Gln Leu Cys Ala Gln Ser Lys Glu Lys Thr His 835 840 845
- Leu Pro Asp Phe Leu Ile Cys Lys Leu Lys Asn Thr Trp Leu Ser Gly 850 855 860
- Val Asn Leu Leu Val His Gln Thr Asp Ser Ser Tyr Lys Glu Ser Thr 865 870 875 880
- Phe Leu His Leu Ser Ala Leu Trp Leu Lys Asn Gln Val Gln Ala Ser 885 890 895
- Ser Leu Asp Ile Asn Ser Leu Gln Val Leu Leu Ser Ala Val Asp Asp 900 905 910
- Leu Leu Asn Thr Leu Leu Glu Ser Glu Asp Ser Tyr Leu Met Gly Val 915 920 925

- Tyr Ile Gly Ser Val Met Pro Asn Asp Ser Glu Trp Glu Lys Met Arg 930 935 940
- Gln Ser Leu Pro Met Gln Trp Leu His Arg Pro Leu Leu Glu Gly Arg 945 950 955 960
- Leu Ser Leu Asn Tyr Glu Cys Phe Lys Thr Asp Phe Lys Glu Gln Asp 965 970 975
- Ile Lys Thr Leu Pro Ser His Leu Cys Thr Ser Ala Leu Leu Ser Lys 980 985 990
- Met Val Leu Ile Ala Leu Arg Lys Glu Thr Val Leu Glu Asn Asn Glu 995 1000 1005
- Leu Glu Lys Ile Ile Ala Glu Leu Leu Tyr Ser Leu Gln Trp Cys Glu 1010 1015 1020
- Glu Leu Asp Asn Pro Pro Ile Phe Leu Ile Gly Phe Cys Glu Ile Leu 1025 1030 1035 1040
- Gln Lys Met Asn Ile Thr Tyr Asp Asn Leu Arg Val Leu Gly Asn Thr
- Ser Gly Leu Leu Gln Leu Leu Phe Asn Arg Ser Arg Glu His Gly Thr 1060 1065 1070
- Leu Trp Ser Leu Ile Ile Ala Lys Leu Ile Leu Ser Arg Ser Ile Ser 1075 1080 1085
- Ser Asp Glu Val Lys Pro His Tyr Lys Arg Lys Glu Ser Phe Phe Pro 1090 1095 1100
- Leu Thr Glu Gly Asn Leu His Thr Ile Gln Ser Leu Cys Pro Phe Leu 1105 1110 1115 1120
- Ser Lys Glu Glu Lys Lys Glu Phe Ser Ala Gln Cys Ile Pro Ala Leu 1125 1130 1135
- Leu Gly Trp Thr Lys Lys Asp Leu Cys Ser Thr Asn Gly Gly Phe Gly 1140 1145 1150
- His Leu Ala Ile Phe Asn Ser Cys Leu Gln Thr Lys Ser Ile Asp Asp 1155 1160 1165
- Gly Glu Leu Leu His Gly Ile Leu Lys Ile Ile Ile Ser Trp Lys Lys 1170 1175 1180
- Glu His Glu Asp Ile Phe Leu Phe Ser Cys Asn Leu Ser Glu Ala Ser 1185 1190 1195 1200
- Pro Glu Val Leu Gly Val Asn Ile Glu Ile Ile Arg Phe Leu Ser Leu 1205 1210 1215

- Phe Leu Lys Tyr Cys Ser Ser Pro Leu Ala Glu Ser Glu Trp Asp Phe 1220 1225 1230
- Ile Met Cys Ser Met Leu Ala Trp Leu Glu Thr Thr Ser Glu Asn Gln 1235 1240 1245
- Ala Leu Tyr Ser Ile Pro Leu Val Gln Leu Phe Ala Cys Val Ser Cys 1250 1255 1260
- Asp Leu Ala Cys Asp Leu Ser Ala Phe Phe Asp Ser Thr Thr Leu Asp 1265 1270 1275 1280
- Thr Ile Gly Asn Leu Pro Val Asn Leu Ile Ser Glu Trp Lys Glu Phe 1285 1290 1295
- Phe Ser Gln Gly Ile His Ser Leu Leu Leu Pro Ile Leu Val Thr Val 1300 1305 1310
- Thr Gly Glu Asn Lys Asp Val Ser Glu Thr Ser Phe Gln Asn Ala Met 1315 1320 1325
- Leu Lys Pro Met Cys Glu Thr Leu Thr Tyr Ile Ser Lys Glu Gln Leu 1330 1335 1340
- Leu Ser His Lys Leu Pro Ala Arg Leu Val Ala Asp Gln Lys Thr Asn 1345 1350 1355 1360
- Leu Pro Glu Tyr Leu Gln Thr Leu Leu Asn Thr Leu Ala Pro Leu Leu 1365 1370 1375
- Leu Phe Arg Ala Arg Pro Val Gln Ile Ala Val Tyr His Met Leu Tyr 1380 1385 1390
- Lys Leu Met Pro Glu Leu Pro Gln Tyr Asp Gln Asp Asn Leu Lys Ser 1395 1400 1405
- Tyr Gly Asp Glu Glu Glu Glu Pro Ala Leu Ser Pro Pro Ala Ala Leu 1410 1415 1420
- Met Ser Leu Leu Ser Ile Gln Glu Asp Leu Leu Glu Asn Val Leu Gly 1425 1430 1435 1440
- Cys Ile Pro Val Gly Gln Ile Val Thr Ile Lys Pro Leu Ser Glu Asp 1445 1450 1455
- Phe Cys Tyr Val Leu Gly Tyr Leu Leu Thr Trp Lys Leu Ile Leu Thr 1460 1465 1470
- Phe Phe Lys Ala Ala Ser Ser Gln Leu Arg Ala Leu Tyr Ser Met Tyr 1475 1480 1485
- Leu Arg Lys Thr Lys Ser Leu Asn Lys Leu Leu Tyr His Leu Phe Arg 1490 1495 1500

- Leu Met Pro Glu Asn Pro Thr Tyr Ala Glu Thr Ala Val Glu Val Pro 1505 1510 1515 1520
- Asn Lys Asp Pro Lys Thr Phe Phe Thr Glu Glu Leu Gln Leu Ser Ile 1525 1530 1535
- Arg Glu Thr Thr Met Leu Pro Tyr His Ile Pro His Leu Ala Cys Ser 1540 1545 1550
- Val Tyr His Met Thr Leu Lys Asp Leu Pro Ala Met Val Arg Leu Trp 1555 1560 1565
- Trp Asn Ser Ser Glu Lys Arg Val Phe Asn Ile Val Asp Arg Phe Thr 1570 1575 1580
- Ser Lys Tyr Val Ser Ser Val Leu Ser Phe Gln Glu Ile Ser Ser Val 1585 1590 1595 1600
- Gln Thr Ser Thr Gln Leu Phe Asn Gly Met Thr Val Lys Ala Arg Ala 1605 1610 1615
- Thr Thr Arg Glu Val Met Ala Thr Tyr Thr Ile Glu Asp Ile Val Ile 1620 1625 1630
- Glu Leu Ile Ile Gln Leu Pro Ser Asn Tyr Pro Leu Gly Ser Ile Ile 1635 1640 1645
- Val Glu Ser Gly Lys Arg Val Gly Val Ala Val Gln Gln Trp Arg Asn 1650 1655 1660
- Trp Met Leu Gln Leu Ser Thr Tyr Leu Thr His Gln Asn Gly Ser Ile 1665 1670 1675 1680
- Met Glu Gly Leu Ala Leu Trp Lys Asn Asn Val Asp Lys Arg Phe Glu 1685 1690 1695
- Gly Val Glu Asp Cys Met Ile Cys Phe Ser Val Ile His Gly Phe Asn 1700 1705 1710
- Tyr Ser Leu Pro Lys Lys Ala Cys Arg Thr Cys Lys Lys Phe His 1715 1720 1725
- Ser Ala Cys Leu Tyr Lys Trp Phe Thr Ser Ser Asn Lys Ser Thr Cys 1730 1735 1740

Pro Leu Cys Arg Glu Thr Phe Phe 1745 1750

<210> 7

<211> 1767

<212> PRT

<213> Mus musculus

<400> 7

Met Gly Gly Lys Asn Lys Gln Arg Thr Lys Gly Asn Leu Arg Pro Ser 1 5 10 15

Asn Ser Gly Arg Ala Ala Glu Leu Leu Ala Lys Glu Gln Gly Thr Val 20 25 30

Pro Gly Phe Ile Gly Phe Gly Thr Ser His Ser Asp Leu Gly Tyr Val

Pro Ala Val Gln Gly Ala Glu Asp Ile Asp Ser Leu Val Asp Ser Asp 50 55 60

Phe Arg Met Val Leu Arg Lys Leu Ser Lys Lys Asp Val Thr Thr Lys 65 70 75 80

Leu Lys Ala Met Gln Glu Phe Gly Ile Met Cys Thr Glu Arg Asp Thr 85 90 95

Glu Ala Val Lys Gly Val Leu Pro Tyr Trp Pro Arg Ile Phe Cys Lys 100 105 110

Ile Ser Leu Asp His Asp Arg Arg Val Arg Glu Ala Thr Gln Gln Ala 115 120 125

Phe Glu Lys Leu Ile Leu Lys Val Lys Lys His Leu Ala Pro Tyr Leu 130 135 140

Lys Ser Val Met Gly Tyr Trp Leu Met Ala Gln Cys Asp Thr Tyr Pro 145 150 155 160

Pro Ala Ala Leu Ala Ala Lys Asp Ala Phe Glu Ala Ala Phe Pro Pro 165 170 175

Ser Lys Gln Pro Glu Ala Ile Ala Phe Cys Lys Glu Glu Ile Thr Thr 180 185 190

Val Leu Gln Asp His Leu Leu Lys Glu Thr Pro Asp Thr Leu Ser Asp 195 200 205

Pro Gln Thr Val Pro Glu Glu Glu Arg Glu Ala Lys Phe His Arg Val 210 215 220

Val Thr Cys Ser Leu Leu Ala Leu Lys Arg Leu Leu Cys Phe Leu Pro

Asn Asn Glu Leu Asp Ser Leu Glu Glu Lys Phe Lys Ser Leu Leu Ser 245 250 255

Gln Asn Lys Phe Trp Lys Tyr Gly Lys His Ser Val Pro Gln Val Arg 260 265 270

- Ser Ala Tyr Phe Glu Leu Val Ser Ala Leu Cys Gln His Val Pro Gln 275 280 285
- Val Met Lys Glu Glu Ala Ala Lys Val Ser Pro Ser Val Leu Leu Ser 290 295 300
- Ile Asp Asp Ser Asp Pro Val Val Cys Pro Ala Leu Trp Glu Ala Val 305 310 315 320
- Leu Tyr Thr Leu Thr Thr Ile Glu Asp Cys Trp Phe His Val Asn Ala 325 330 335
- Lys Lys Ser Val Phe Pro Lys Leu Met Ala Met Ile Arg Glu Gly Gly 340 345 350
- Arg Gly Leu Ala Ala Val Met Tyr Pro Tyr Leu Leu Pro Phe Ile Ser 355 360 365
- Lys Leu Pro Gln Ser Ile Thr Glu Pro Lys Leu Asp Phe Phe Lys Asn 370 375 380
- Phe Leu Thr Ser Leu Val Thr Gly Leu Ser Thr Glu Arg Thr Lys Ser 385 390 395 400
- Ser Ser Ser Glu Cys Ser Ala Val Ile Pro Ala Phe Phe Glu Cys Leu 405 410 415
- Arg Phe Ile Met Gln Gln Asn Leu Gly Glu Glu Glu Met Val Gln Met
 420 425 430
- Leu Ile Asn Glu Gln Leu Ile Pro Phe Ile Asp Thr Val Leu Lys Asp 435 440 445
- Ser Gly Leu His His Gly Pro Met Phe Asp His Leu Ala Asp Thr Leu 450 455 460
- Ser Ser Trp Glu Ala Lys Ala Asp Ala Glu Arg Asp Pro Gly Ala Val 465 470 475 480
- Tyr Asn Leu Glu Asn Val Leu Leu Ser Phe Trp Gly Arg Leu Ser Glu
 485 490 495
- Ile Cys Thr Glu Lys Ile Arg Gln Pro Glu Ala Asp Val Lys Ser Val 500 505 510
- Leu Cys Val Ser Ser Leu Val Gly Val Leu Gln Arg Pro Arg Ser Ser 515 520 525
- Leu Glu Leu His Arg Lys Lys Thr Ala Gln Val Arg Phe Ala Ile Asn 530 535 540
- Ile Pro Glu Ala His Lys Gly Asp Glu Lys Ser Met Ser Ser Glu Gly 545 550 555 560

- Glu Asn Ser Glu Gly Ser Asp Gly Gly Ala Gln Ser Pro Leu Ser Asn 565 570 575
- Thr Ser Ser Asp Leu Val Ser Pro Leu Arg Lys Lys Pro Leu Glu Asp 580 585 590
- Leu Val Cys Lys Leu Ala Glu Val Ser Ile Ser Phe Val Asn Glu Arg 595 600 605
- Lys Ser Glu Gln His Leu Gln Phe Leu Ser Thr Leu Leu Asp Ser Phe 610 615 620
- Ser Ser Val Gln Val Phe Asn Ile Leu Leu Ser Asp Lys Gln Lys Asn 625 630 635 640
- Val Val Lys Ala Lys Pro Leu Glu Ile Thr Lys Leu Ala Glu Lys Asn 645 650 655
- Pro Ala Val Lys Phe Leu Tyr His Lys Leu Ile Gly Trp Leu Asn Asp 660 665 670
- Ser Gln Lys Glu Asp Gly Gly Phe Leu Val Asp Ile Leu Tyr Ser Ala 675 680 685
- Leu Arg Cys Cys Asp Ser Gly Val Glu Arg Lys Glu Val Leu Asp Asp 690 695 700
- Leu Thr Lys Glu Asp Leu Lys Trp Ser Ser Leu Leu Gln Val Ile Glu 705 710 715 720
- Lys Ala Cys Ser Ser Ser Asp Lys His Ala Leu Val Thr Pro Trp Leu 725 730 735
- Lys Gly Ser Ile Leu Gly Glu Lys Leu Val Ala Leu Ala Asp Cys Leu 740 745 750
- Cys Asp Lys Asp Leu Glu Ala Thr Thr Ser Glu Ser His Ser Ser Glu 755 760 765
- Gln Trp Ser Leu Leu Arg Leu Ala Leu Ser Gln His Val Lys Asn Asp 770 775 780
- Tyr Leu Ile Gly Glu Val Tyr Val Gly Arg Ile Ile Val Lys Leu His 785 790 795 800
- Glu Thr Leu Ser Lys Thr Lys Asp Leu Ser Glu Ala Ala Asn Ser Asp 805 810 815
- Ser Ser Val Ser Phe Val Cys Asp Val Val His Ser Phe Phe Ser Ser 820 825 830
- Ala Gly Gly Gly Leu Leu Met Pro Pro Ser Glu Asp Leu Leu Thr 835 840 845

- Leu Phe Gln Leu Cys Ala Gln Ser Lys Glu Arg Thr His Leu Pro Asp 850 855 860
- Phe Leu Ile Cys Lys Leu Lys Asn Thr Leu Leu Ser Gly Val Asn Leu 865 870 875 880
- Leu Val His Gln Thr Ala Ser Thr Tyr Glu Gln Ser Thr Phe Leu Arg 885 890 895
- Leu Ser Val Leu Trp Leu Lys Asp Gln Val Gln Ser Ser Ala Leu Asp 900 905 910
- Asn Thr Ser Leu Gln Val Leu Leu Ser Ala Ala Gly Asp Leu Leu Gly 915 920 925
- Thr Leu Val Glu Ser Glu Asp Thr Ser Leu Leu Gly Val Tyr Ile Gly 930 935 940
- Ser Val Met Pro Ser Asp Ser Glu Trp Glu Lys Met Arg Gln Ala Leu 945 950 955 960
- Pro Val Gln Trp Leu His Arg Pro Leu Leu Glu Gly Arg Leu Ser Leu 965 970 975
- Asn Tyr Glu Cys Phe Lys Thr Asp Phe Lys Glu Gln Asp Thr Lys Thr 980 985 990
- Leu Pro Asn His Leu Cys Thr Ser Ser Leu Leu Ser Lys Met Ile Leu 995 1000 1005
- Val Ala Gln Lys Lys Leu Val Leu Glu Asp Asn Val Leu Glu Lys 1010 1015 1020
- Ile Ile Ala Glu Leu Leu Tyr Ser Leu Gln Trp Cys Glu Glu Leu Asp 1025 1030 1035 1040
- Asn Ala Pro Ser Phe Leu Ser Gly Phe Cys Gly Ile Leu Gln Lys Met 1045 1050 1055
- Asn Ile Thr Tyr Ser Asn Leu Ser Val Leu Ser Glu Thr Ser Ser Leu 1060 1065 1070
- Leu Gln Leu Leu Phe Asp Arg Ser Arg Lys Asn Gly Thr Leu Trp Ser 1075 1080 1085
- Leu Ile Ile Ala Lys Leu Ile Leu Ser Arg Ser Ile Ser Ser Asp Glu 1090 1095 1100
- Val Lys Pro Tyr Tyr Lys Arg Lys Glu Ser Phe Phe Pro Leu Thr Glu 1105 1110 1115 1120
- Gly Ser Leu His Thr Ile Gln Ser Leu Cys Pro Phe Leu Ser Lys Glu 1125 1130 1135

- Glu Lys Lys Glu Phe Ser Ala His Ser Ile Pro Ala Phe Leu Gly Trp 1140 1145 1150
- Thr Lys Glu Asp Leu Cys Ser Ile Asn Gly Ala Phe Gly His Leu Ala 1155 1160 1165
- Ile Phe Asn Ser Cys Leu Gln Thr Arg Ser Ile Asp Asp Lys Gln Leu 1170 1175 1180
- Leu His Gly Ile Leu Lys Ile Ile Thr Ser Trp Arg Lys Gln His Glu 1185 1190 1195 1200
- Asp Ile Phe Leu Phe Ser Cys Asn Leu Ser Glu Ala Ser Pro Glu Val 1205 1210 1215
- Leu Gly Leu Asn Ile Glu Ile Met Arg Phe Leu Ser Leu Phe Leu Lys 1220 1225 1230
- His Cys Ala Tyr Pro Leu Pro Leu Ala Asp Ser Glu Trp Asp Phe Ile 1235 1240 1245
- Met Cys Ser Met Leu Ala Trp Leu Glu Thr Thr Ser Glu Asn Gln Ala 1250 1255 1260
- Leu Tyr Ser Val Pro Leu Val Gln Leu Phe Ala Cys Val Ser Phe Asp 1265 1270 1275 1280
- Leu Ala Cys Asp Leu Cys Ala Phe Phe Asp Ser Ile Thr Pro Asp Ile 1285 1290 1295
- Val Asp Asn Leu Pro Val Asn Leu Ile Ser Glu Trp Lys Glu Phe Phe 1300 1305 1310
- Ser Lys Gly Ile His Ser Leu Leu Leu Pro Leu Leu Val Asn Ala Ile 1315 1320 1325
- Gly Glu Asn Lys Asp Leu Ser Glu Thr Ser Phe Gln Asn Ala Met Leu 1330 1335 1340
- Lys Pro Met Cys Glu Thr Leu Thr Tyr Ile Ser Lys Asp Gln Leu Leu 1345 1350 1355 1360
- Ser His Lys Leu Pro Ala Arg Leu Val Ala Ser Gln Lys Thr Asn Leu 1365 1370 1375
- Pro Glu His Leu Gln Thr Leu Leu Asn Thr Leu Thr Pro Leu Leu Leu 1380 1385 1390
- Phe Arg Ala Arg Pro Val Gln Ile Ala Ala Tyr His Met Leu Cys Lys 1395 1400 1405
- Leu Met Pro Glu Leu Pro Gln His Asp Gln Asp Asn Leu Arg Ser Tyr 1410 1415 1420

- Gly Asp Glu Glu Glu Pro Ala Leu Ser Pro Pro Ala Ala Leu Met 1425 1430 1435 1440
- Ser Leu Leu Ser Ser Gln Glu Glu Leu Glu Asn Val Leu Gly Cys 1445 1450 1455
- Val Pro Val Gly Gln Ile Val Thr Val Lys Pro Leu Ser Glu Asp Phe 1460 1465 1470
- Cys Tyr Val Leu Gly Tyr Leu Leu Thr Trp Lys Leu Ile Leu Thr Phe 1475 1480 1485
- Phe Lys Ala Ala Ser Ser Gln Leu Arg Ala Leu Tyr Ser Met Tyr Leu 1490 1495 1500
- Arg Lys Thr Lys Ser Leu Asn Lys Leu Leu Tyr His Leu Phe Arg Leu 1505 1510 1515 1520
- Met Pro Glu Asn Pro Thr Tyr Gly Glu Thr Ala Ile Glu Val Ser Ser 1525 1530 1535
- Lys Asp Pro Lys Thr Phe Phe Thr Glu Glu Val Gln Leu Ser Ile Arg 1540 1545 1550
- Glu Thr Ala Thr Leu Pro Tyr His Ile Pro His Leu Ala Cys Ser Val
- Tyr His Met Thr Leu Lys Asp Leu Pro Ala Met Val Arg Leu Trp Trp 1570 1575 1580
- Asn Ser Ser Glu Lys Arg Val Phe Asn Ile Val Asp Arg Phe Thr Ser 1585 1590 1595 1600
- Lys Tyr Val Ser Asn Val Leu Ser Phe Gln Glu Ile Ser Ser Val Gln 1605 1610 1615
- Thr Ser Thr Gln Leu Phe Asn Gly Met Thr Val Lys Ala Arg Ala Thr 1620 1625 1630
- Thr Arg Glu Val Met Ala Thr Tyr Thr Ile Glu Asp Ile Val Ile Glu 1635 1640 1645
- Leu Ile Ile Gln Leu Pro Ser Asn Tyr Pro Leu Gly Ser Ile Thr Val 1650 1655 1660
- Glu Ser Gly Lys Arg Ile Gly Val Ala Val Gln Gln Trp Arg Asn Trp 1665 1670 1675 1680
- Met Leu Gln Leu Ser Thr Tyr Leu Thr His Gln Asn Gly Ser Ile Met 1685 1690 1695
- Glu Gly Leu Ala Leu Trp Lys Asn Asn Val Asp Lys Arg Phe Glu Gly
 1700 1705 1710

Val Glu Asp Cys Met Ile Cys Phe Ser Val Ile His Gly Phe Asn Tyr 1715 1720 1725

Ser Leu Pro Lys Lys Ala Cys Arg Thr Cys Lys Lys Lys Phe His Ser 1730 1735 1740

Ala Cys Leu Tyr Lys Trp Phe Thr Ser Ser Asn Lys Ser Thr Cys Pro 1745 1750 1755 1760

Leu Cys Arg Glu Thr Phe Phe 1765

<210> 8

<211> 1766

<212> PRT

<213> Homo sapiens

<400> 8

Met Gly Gly Lys Asn Lys Gln Arg Thr Lys Gly Asn Leu Arg Pro Ser 1 5 10 15

Asn Ser Gly Arg Ala Ala Glu Leu Leu Ala Lys Glu Gln Gly Thr Val 20 25 30

Pro Gly Phe Ile Gly Phe Gly Thr Ser Gln Ser Asp Leu Gly Tyr Val

Pro Ala Ile Gln Gly Ala Glu Glu Ile Asp Ser Leu Val Asp Ser Asp
50 55 60

Phe Arg Met Val Leu Arg Lys Leu Ser Lys Lys Asp Val Thr Thr Lys 65 70 75 80

Leu Lys Ala Met Gln Glu Phe Gly Thr Met Cys Thr Glu Arg Asp Thr 85 90 95

Glu Thr Val Lys Gly Val Leu Pro Tyr Trp Pro Arg Ile Phe Cys Lys 100 105 110

Ile Ser Leu Asp His Asp Arg Arg Val Arg Glu Ala Thr Gln Gln Ala 115 120 125

Phe Glu Lys Leu Ile Leu Lys Val Lys Lys Gln Leu Ala Pro Tyr Leu 130 135 140

Lys Ser Leu Met Gly Tyr Trp Leu Met Ala Gln Cys Asp Thr Tyr Thr 145 150 155 160

Pro Ala Ala Phe Ala Ala Lys Asp Ala Phe Glu Ala Ala Phe Pro Pro 165 170 175

Ser Lys Gln Pro Glu Ala Ile Ala Phe Cys Lys Asp Glu Ile Thr Ser 180 185 190

- Val Leu Gln Asp His Leu Ile Lys Glu Thr Pro Asp Thr Leu Ser Asp 195 200 205
- Pro Gln Thr Val Pro Glu Glu Glu Arg Glu Ala Lys Phe Tyr Arg Val 210 215 220
- Val Thr Cys Ser Leu Leu Ala Leu Lys Arg Leu Leu Cys Leu Leu Pro 225 230 235 240
- Asp Asn Glu Leu Asp Ser Leu Glu Glu Lys Phe Lys Ser Leu Leu Ser 245 250 255
- Gln Asn Lys Phe Trp Lys Tyr Gly Lys His Ser Val Pro Gln Ile Arg 260 265 270
- Ser Ala Tyr Phe Glu Leu Val Ser Ala Leu Cys Gln Arg Ile Pro Gln 275 280 285
- Leu Met Lys Glu Glu Ala Ser Lys Val Ser Pro Ser Val Leu Leu Ser 290 295 300
- Ile Asp Asp Ser Asp Pro Ile Val Cys Pro Ala Leu Trp Glu Ala Val 305 310 315 320
- Leu Tyr Thr Leu Thr Thr Ile Glu Asp Cys Trp Leu His Val Asn Ala 325 330 335
- Lys Lys Ser Val Phe Pro Lys Leu Ser Thr Val Ile Arg Glu Gly Gly 340 345 350
- Arg Gly Leu Ala Thr Val Ile Tyr Pro Tyr Leu Leu Pro Phe Ile Ser 355 360 365
- Lys Leu Pro Gln Ser Ile Thr Asn Pro Lys Leu Asp Phe Phe Lys Asn 370 375 380
- Phe Leu Thr Ser Leu Val Ala Gly Leu Ser Thr Glu Arg Thr Lys Thr 385 390 395 400
- Ser Ser Leu Glu Ser Ser Ala Val Ile Ser Ala Phe Phe Glu Cys Leu 405 410 415
- Arg Phe Ile Met Gln Gln Asn Leu Gly Glu Glu Glu Ile Glu Gln Met 420 425 430
- Leu Val Asn Asp Gln Leu Ile Pro Phe Ile Asp Ala Val Leu Lys Asp 435 440 445
- Pro Gly Leu Gln His Gly Gln Leu Phe Asn His Leu Ala Glu Thr Leu 450 455 460
- Ser Ser Trp Glu Ala Lys Ala Asp Thr Glu Lys Asp Glu Lys Thr Ala 465 470 475 480

- His Asn Leu Glu Asn Val Leu Ile His Phe Trp Glu Arg Leu Ser Glu 485 490 495
- Ile Cys Val Ala Lys Ile Ser Glu Pro Glu Ala Asp Val Glu Ser Val 500 505 510
- Leu Gly Val Ser Asn Leu Leu Gln Val Leu Gln Lys Pro Lys Ser Ser 515 520 525
- Leu Lys Ser Ser Lys Lys Lys Asn Gly Lys Val Arg Phe Ala Asp Glu 530 535 540
- Ile Leu Glu Ser Asn Lys Glu Asn Glu Lys Cys Val Ser Ser Glu Gly 545 550 555 560
- Glu Lys Ile Glu Gly Trp Glu Leu Thr Thr Glu Pro Ser Leu Thr His
 565 570 575
- Asn Ser Ser Gly Leu Leu Ser Pro Leu Arg Lys Lys Pro Leu Glu Asp 580 585 590
- Leu Val Cys Lys Leu Ala Asp Ile Ser Ile Asn Tyr Val Asn Glu Arg
- Lys Ser Glu Gln His Leu Arg Phe Leu Ser Thr Leu Leu Asp Ser Phe 610 615 620
- Ser Ser Ser Arg Val Phe Lys Met Leu Leu Gly Asp Glu Lys Gln Ser 625 630 635
- Ile Val Gln Ala Lys Pro Leu Glu Ile Ala Lys Leu Val Gln Lys Asn 645 650 655
- Pro Ala Val Gln Phe Leu Tyr Gln Lys Leu Ile Gly Trp Leu Asn Glu 660 665 670
- Asp Gln Arg Lys Asp Phe Gly Phe Leu Val Asp Ile Leu Tyr Ser Ala 675 680 685
- Leu Arg Cys Cys Asp Asn Asp Met Glu Arg Lys Lys Val Leu Asp Asp 690 695 700
- Leu Thr Lys Val Asp Leu Lys Trp Asn Ser Leu Leu Lys Ile Ile Glu 705 710 715 720
- Lys Ala Cys Pro Ser Ser Asp Lys His Ala Leu Val Thr Pro Trp Leu 725 730 735
- Lys Gly Asp Ile Leu Gly Glu Lys Leu Val Asn Leu Ala Asp Cys Leu 740 745 750
- Cys Asn Glu Asp Leu Glu Ser Arg Val Ser Ser Glu Ser His Phe Ser 755 760 765

- Glu Arg Trp Thr Leu Leu Ser Leu Val Leu Ser Gln His Val Lys Asn 770 775 780
- Asp Tyr Leu Ile Gly Asp Val Tyr Val Glu Arg Ile Ile Val Arg Leu 785 790 795 800
- His Glu Thr Leu Phe Lys Thr Lys Lys Leu Ser Glu Ala Glu Ser Ser 805 810 815
- Asp Ser Ser Val Ser Phe Ile Cys Asp Val Ala Tyr Asn Tyr Phe Ser 820 825 830
- Ser Ala Lys Gly Cys Leu Leu Met Pro Ser Ser Glu Asp Leu Leu 835 840 845
- Thr Leu Phe Gln Leu Cys Ala Gln Ser Lys Glu Lys Thr His Leu Pro 850 855 860
- Asp Phe Leu Ile Cys Lys Leu Lys Asn Thr Trp Leu Ser Gly Val Asn 865 870 875 880
- Leu Leu Val His Gln Thr Asp Ser Ser Tyr Lys Glu Ser Thr Phe Leu 885 890 895
- His Leu Ser Ala Leu Trp Leu Lys Asn Gln Val Gln Ala Ser Ser Leu 900 905 910
- Asp Ile Asn Ser Leu Gln Val Leu Leu Ser Ala Val Asp Asp Leu Leu
 915 920 925
- Asn Thr Leu Leu Glu Ser Glu Asp Ser Tyr Leu Met Gly Val Tyr Ile 930 935 940
- Gly Ser Val Met Pro Asn Asp Ser Glu Trp Glu Lys Met Arg Gln Ser 945 950 955 960
- Leu Pro Met Gln Trp Leu His Arg Pro Leu Leu Glu Gly Arg Leu Ser 965 970 975
- Leu Asn Tyr Glu Cys Phe Lys Thr Asp Phe Lys Glu Gln Asp Ile Lys 980 985 990
- Thr Leu Pro Ser His Leu Cys Thr Ser Ala Leu Leu Ser Lys Met Val
- Leu Ile Ala Leu Arg Lys Glu Thr Val Leu Glu Asn Asn Glu Leu Glu 1010 1015 1020
- Lys Ile Ile Ala Glu Leu Leu Tyr Ser Leu Gln Trp Cys Glu Glu Leu 1025 1030 1035 1040
- Asp Asn Pro Pro Ile Phe Leu Ile Gly Phe Cys Glu Ile Leu Gln Lys 1045 1050 1055

- Met Asn Ile Thr Tyr Asp Asn Leu Arg Val Leu Gly Asn Thr Ser Gly 1060 1065 1070
- Leu Leu Gln Leu Leu Phe Asn Arg Ser Arg Glu His Gly Thr Leu Trp 1075 1080 1085
- Ser Leu Ile Ile Ala Lys Leu Ile Leu Ser Arg Ser Ile Ser Ser Asp 1090 1095 1100
- Glu Val Lys Pro His Tyr Lys Arg Lys Glu Ser Phe Phe Pro Leu Thr 1105 1110 1115 1120
- Glu Gly Asn Leu His Thr Ile Gln Ser Leu Cys Pro Phe Leu Ser Lys 1125 1130 1135
- Glu Glu Lys Lys Glu Phe Ser Ala Gln Cys Ile Pro Ala Leu Leu Gly 1140 1145 1150
- Trp Thr Lys Lys Asp Leu Cys Ser Thr Asn Gly Gly Phe Gly His Leu 1155 1160 1165
- Ala Ile Phe Asn Ser Cys Leu Gln Thr Lys Ser Ile Asp Asp Gly Glu 1170 1175 1180
- Leu Leu His Gly Ile Leu Lys Ile Ile Ile Ser Trp Lys Lys Glu His 1185 1190 1195 1200
- Glu Asp Ile Phe Leu Phe Ser Cys Asn Leu Ser Glu Ala Ser Pro Glu 1205 1210 1215
- Val Leu Gly Val Asn Ile Glu Ile Ile Arg Phe Leu Ser Leu Phe Leu 1220 1225 1230
- Lys Tyr Cys Ser Ser Pro Leu Ala Glu Ser Glu Trp Asp Phe Ile Met 1235 1240 1245
- Cys Ser Met Leu Ala Trp Leu Glu Thr Thr Ser Glu Asn Gln Ala Leu
- Tyr Ser Ile Pro Leu Val Gln Leu Phe Ala Cys Val Ser Cys Asp Leu 1265 1270 1275 1280
- Ala Cys Asp Leu Ser Ala Phe Phe Asp Ser Thr Thr Leu Asp Thr Ile 1285 1290 1295
- Gly Asn Leu Pro Val Asn Leu Ile Ser Glu Trp Lys Glu Phe Phe Ser 1300 1305 1310
- Gln Gly Ile His Ser Leu Leu Leu Pro Ile Leu Val Thr Val Thr Gly 1315 1320 1325
- Glu Asn Lys Asp Val Ser Glu Thr Ser Phe Gln Asn Ala Met Leu Lys 1330 1335 1340

- Pro Met Cys Glu Thr Leu Thr Tyr Ile Ser Lys Glu Gln Leu Leu Ser 1345 1350 1355 1360
- His Lys Leu Pro Ala Arg Leu Val Ala Asp Gln Lys Thr Asn Leu Pro 1365 1370 1375
- Glu Tyr Leu Gln Thr Leu Leu Asn Thr Leu Ala Pro Leu Leu Phe 1380 1385 1390
- Arg Ala Arg Pro Val Gln Ile Ala Val Tyr His Met Leu Tyr Lys Leu 1395 1400 1405
- Met Pro Glu Leu Pro Gln Tyr Asp Gln Asp Asn Leu Lys Ser Tyr Gly 1410 1415 1420
- Asp Glu Glu Glu Pro Ala Leu Ser Pro Pro Ala Ala Leu Met Ser 1425 1430 1435 1440
- Leu Leu Ser Ile Gln Glu Asp Leu Leu Glu Asn Val Leu Gly Cys Ile 1445 1450 1455
- Pro Val Gly Gln Ile Val Thr Ile Lys Pro Leu Ser Glu Asp Phe Cys
- Tyr Val Leu Gly Tyr Leu Leu Thr Trp Lys Leu Ile Leu Thr Phe Phe 1475 1480 1485
- Lys Ala Ala Ser Ser Gln Leu Arg Ala Leu Tyr Ser Met Tyr Leu Arg 1490 1495 1500
- Lys Thr Lys Ser Leu Asn Lys Leu Leu Tyr His Leu Phe Arg Leu Met 1505 1510 1515 1520
- Pro Glu Asn Pro Thr Tyr Ala Glu Thr Ala Val Glu Val Pro Asn Lys 1525 1530 1535
- Asp Pro Lys Thr Phe Phe Thr Glu Glu Leu Gln Leu Ser Ile Arg Glu 1540 1545 1550
- Thr Thr Met Leu Pro Tyr His Ile Pro His Leu Ala Cys Ser Val Tyr 1555 1560 1565
- His Met Thr Leu Lys Asp Leu Pro Ala Met Val Arg Leu Trp Trp Asn 1570 1575 1580
- Ser Ser Glu Lys Arg Val Phe Asn Ile Val Asp Arg Phe Thr Ser Lys 1585 1590 1595 1600
- Tyr Val Ser Ser Val Leu Ser Phe Gln Glu Ile Ser Ser Val Gln Thr 1605 1610 1615
- Ser Thr Gln Leu Phe Asn Gly Met Thr Val Lys Ala Arg Ala Thr Thr 1620 1625 1630

Arg Glu Val Met Ala Thr Tyr Thr Ile Glu Asp Ile Val Ile Glu Leu 1635 1640 1645

Ile Ile Gln Leu Pro Ser Asn Tyr Pro Leu Gly Ser Ile Ile Val Glu 1650 1660

Ser Gly Lys Arg Val Gly Val Ala Val Gln Gln Trp Arg Asn Trp Met 1665 1670 1675 1680

Leu Gln Leu Ser Thr Tyr Leu Thr His Gln Asn Gly Ser Ile Met Glu 1685 1690 1695

Gly Leu Ala Leu Trp Lys Asn Asn Val Asp Lys Arg Phe Glu Gly Val 1700 1705 1710

Glu Asp Cys Met Ile Cys Phe Ser Val Ile His Gly Phe Asn Tyr Ser 1715 1720 1725

Leu Pro Lys Lys Ala Cys Arg Thr Cys Lys Lys Lys Phe His Ser Ala 1730 1735 1740

Cys Leu Tyr Lys Trp Phe Thr Ser Ser Asn Lys Ser Thr Cys Pro Leu 1745 1750 1755 1760

Cys Arg Glu Thr Phe Phe 1765

<210> 9

<211> 1747

<212> PRT

<213> Drosophila melanogaster

<400> 9

Met Gly Gly Lys Thr Lys Gln Ala Pro Arg Thr Lys Asn Asn Ala Lys

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Pro Ser Ser Ser Arg Thr Ala Glu Leu Leu Gly Ser Ser Thr Pro
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Ile Phe Val Gly Phe Ser Ala Gln Thr Asp Gly Gly Leu Val Pro 35 40 45

Phe Ala Pro Gly Phe Ala Ser Ala Glu Gln Met Pro Asp Ser Phe Asp 50 55 60

Ala Ala Ile Ser Pro Gln Thr Gln Ile Ile Leu Arg Lys Leu Ser Lys 65 70 75 80

Lys Asp Pro Met Thr Lys Lys Lys Ala Leu Gln Glu Leu His Glu Leu 85 90 95

- Ile Glu Gln Ser Asp Val Glu Val Leu Lys Asn Ile Leu Pro Leu Trp 100 105 110
- Pro Lys Tyr Tyr Leu Asn Leu Ala Ser Asp Pro Glu His Thr Val Arg 115 120 125
- Glu Gln Thr Gln Thr Val Leu Gln Leu Leu Met Ala Lys Cys Lys 130 135 140
- Ala Met Ala Pro Tyr Leu Lys Leu Leu Val Pro Val Trp Leu Gly Ser 145 150 155 160
- Arg Phe Asp Thr Tyr Ala Pro Ala Ala Ser Ile Ala Ser Gln Ser Phe 165 170 175
- Arg Asp Thr Phe Ala Gly Asn Ala Asn Arg Ser Arg Glu Val Cys Met 180 185 190
- His Cys Gln Val Glu Ile Leu Glu Tyr Ala Thr Arg Asn Leu Thr Phe 195 200 205
- His Thr Ala Ala Thr Leu Ser Ile Gly Lys Ser Leu Thr Pro Glu Asp 210 215 220
- Ala Glu Gln Lys Tyr Gln Arg Val Ile Ile Ser Ser Leu Lys Leu Leu 225 230 235 240
- Ser Phe Phe Met Gly Gln Thr Ala Gln Thr Glu Glu Leu Ser Gln Val 245 250 255
- Lys Glu Gly Phe Gly Thr Leu Val Ala His Gln Lys Phe Trp Ser Phe 260 265 270
- Ala Lys His Lys Val Pro Ala Ile Lys Ala Ala Trp Phe Glu Cys Ile 275 280 285
- Tyr His Ile Leu Gln Ser Val Ala Leu Leu Asp Val Ile Thr Pro Gln 290 295 300
- Lys Thr Gln Leu Thr Asn Leu Cys Phe Gln Phe Ile Asp Asp Ala Asp 305 310 315 320
- Pro Val Val Ala Pro His Ile Trp Gly Cys Val Leu Leu Leu Gln Ser 325 330 335
- Asn Tyr Val Asp Trp Phe Val Pro Leu Asn Ile Arg Lys Thr Leu Leu 340 345 350
- Pro Lys Leu Ser Ser Leu Leu Gln Asn Gly Phe Asn Arg Asn Ala Gln 355 360 365
- Ala Ile Cys Pro Asn Leu Leu Pro Phe Leu Ser Lys Val Thr Gln Ala 370 375 380

- Ser Leu Gln Asp Leu Asp Ile Tyr Asp Phe Tyr Gln Arg Phe Phe Asp 385 390 395 400
- Asp Met Lys Leu Ala Val Thr Lys Lys Phe Asp Pro Pro Leu Ser Lys 405 410 415
- Ser Asp Cys Ile Val Ile His Asn Ala Tyr Phe Glu Cys Leu Arg Phe 420 425 430
- Leu Met Gln Gln Ile Asn Asn Lys Gln Arg Glu Gln Lys Glu Glu 435 440 445
- Glu Phe Ser Phe Ser Leu Leu Asp Asn Asn Val Leu Glu Pro Ile Ala-450 455 460
- Trp Leu Leu Lys Ser Asp Ser Thr His Val Lys Ile Phe Phe Gln His 465 470 475 480
- Ser Ser Ala Leu Val Ala Phe Trp Asp Arg Gln Ile Asn Asn Arg Leu 485 490 495
- Asp Asn Gly Asp Leu Tyr Ala Lys Leu Leu Asn Lys Phe Trp Ile Arg 500 505 510
- Ile Phe Glu Leu Val Thr Gln Asp Leu Ser Ala Glu Glu Val Asn Glu
 515 520 525
- Gln Leu Leu Gly His Val Leu Leu Leu Val Gln Asp Leu His Met Ala 530 540
- Asn Pro Ser Leu Glu Ser Pro Ser Val Lys Phe Val Glu Gly Pro Asn 545 550 555 560
- Glu Lys Ile Glu Lys Ser Glu Pro Thr Thr Pro Val Lys Lys Ala Gln 565 570 575
- Glu Ala Ala Phe Ile Gln Lys Glu Leu Lys Gln Leu Val Ile Lys 580 585 590
- Leu Val Arg Ile Cys Leu Asp Lys Ala Asn Lys Gly Ser Gly Ser Gly 595 600 605
- Thr Ser Ser Ser Arg Tyr Ile Glu Gln Ile Arg Thr Leu Thr Lys Met 610 615 620
- Phe Asn Asp Ala Ala Phe Tyr Lys Ser Leu Thr Asp Asp Gly Asp Leu 625 630 635 640
- Ala Ser Ala Leu Asn Lys Phe Val Ser Leu Leu Gly Gln Leu Ser Cys 645 650
- Gln Ala Cys Glu Ser Val Val Glu Ile Val Phe Glu Ile Leu Pro Leu 660 665 670

- Leu Glu Thr Gly Lys Arg Phe Glu Tyr Ile Glu Asn Thr Leu Met Lys 675 680 685
- Leu Pro Gln His Gly Val Gln Asn Leu Leu Leu His Arg Leu Leu Ser 690 695 700
- Tyr Pro Leu Cys Ala Glu Ala Ala Val Arg Gln Met Leu Ser Gly Pro 705 710 715 720
- Glu Thr Cys Glu Met Ile Ala Arg Ile Ala Glu Glu Val Val Asp 725 730 735
- Asn Asp Arg Glu Lys Leu Asn Leu Leu His Lys Cys Phe Phe Gln Thr 740 745 750
- Asp Thr Gly Asp Ile Leu Ile Asn Ala Lys Thr Val Asp Lys Ile Leu 755 760 765
- Leu Ser Met Cys Gly Pro Leu Glu Gln Pro Val Val Asp Asp Ala Val 770 775 780
- Glu Val Cys Gly Ser Phe Ile Ala Gln Ile Met Pro Val Ile Cys Ser 785 790 795 800
- Asn Asn Asn Ser Ser Leu His Val Arg Gln His Ile Phe Leu Lys Leu 805 810 815
- Phe Lys Phe Ser Leu Glu His Arg Pro Glu Asp Tyr Leu Ser Glu Asp 820 825 830
- Thr Leu Trp Glu Ile Thr Thr Cys Trp Gln Asp Gly Leu Ser Ser Lys 835 840 845
- Asp Ile Glu Ile Asp Asp Met Leu Lys Cys Cys Ala Gly Ile Val
- Glu Glu Leu Ala Asn Ser Ala Glu Leu Lys Ala Asp Thr Leu Asp Gly 865 870 875 880
- Met Ala Glu Ala Met Ala Lys Phe Val Ile Cys Ser Thr Glu Asn Ile 885 890 895
- Glu Asp Glu Tyr Lys Arg Leu Glu Arg Ile Asp Glu Thr Leu Thr Ala 900 905 910
- Leu Leu Glu Thr Pro Leu Lys Thr Thr Asp Lys Val Gln Gln Phe Glu 915 920 925
- Asn His Cys Val Leu Leu Glu Ala Leu His Gly Ser Val Thr Ala Gly 930 935 940
- Val Pro Phe Glu Asn Ala Cys Leu Ser Arg Asn Glu Ile Leu Pro Leu 945 950 955 960

- Leu Gln Arg Ser Thr Leu Asn Phe Ser Thr Ile Tyr Lys Leu Val Tyr 965 970 975
- Gln Phe Pro Pro Gln Asp Thr Asn Asp Pro Glu Asp Glu Leu Thr 980 985 990
- Glu Asp Tyr Cys Asp Pro Asn Ala Asp Val Leu Lys Lys Trp Asn Glu 995 1000 1005
- Pro Leu Ile Ala Glu Leu Leu Gln Cys Ile Arg Val Ala Gly Thr Ala 1010 1015 1020
- Glu Cys Trp Leu Glu Met Ser Val Leu Gln Ser Ser Thr Glu Glu Leu 1025 1030 1035 1040
- Val Leu Ile Leu Ser Glu Lys Val Gln Ser Phe Met Gly Asn Ser Ser 1045 1050 1055
- Asp Leu Val Ala Ile Val Lys Glu Arg Leu Gln Gln Ala Ala Val Gln
 1060 1065 1070
- Gln Ser Ser Val Ile Asp Cys Arg Leu Leu Ser Tyr Leu Arg Phe Cys 1075 1080 1085
- Pro Gln Tyr Ala Ala Phe Glu Glu Ser Ala Ser Ile Leu Leu His Glu 1090 1095 1100
- Asp Leu Ser Glu Asn Leu Val Thr Gln Gly Ala Leu Lys Thr Tyr Val 1105 1110 1115 1120
- Ile Ala Leu Gln Phe Leu Leu Pro Lys Leu Ser Gln Lys Ala Ile Thr 1125 1130 1135
- Leu Ser Ser Ala Ile Met Gly Thr Glu Pro Pro Glu Ile Trp Val Lys
- Ala Ala Val Phe His Ala Leu Leu Leu Asn Asn Phe Glu Gly Asp Val 1155 1160 1165
- Asn Glu Gln Thr Asp Arg Asn Ile Ile Val Ser Ala Val Gln Phe Met
- Thr Ser Ile Gly Glu Arg Gln Ala Ser Gln Lys Asp Leu Leu His Tyr 1185 1190 1195 1200
- Asn Val Glu Ile Gln Arg Gln Pro Tyr Glu Ser Val Ile Asn Thr Val 1205 1210 1215
- Glu Phe Ile Lys Leu Leu Thr Glu Val Leu Lys Arg Phe Pro Tyr Glu 1220 1225 1230
- Leu Ser Ile Lys Asn Trp Asp Ala Ile Arg Ile Gly Leu Ser Ser Trp 1235 1240 1245

- Val Leu Ser Val Ser Lys Ser Ile Ala Gln Tyr Gln Asp Pro Lys Thr 1250 1255 1260
- Ser Leu Phe Ile Val Ala Val Tyr Glu Leu Phe Ala Ala Leu Ile Asp 1265 1270 1275 1280
- Phe Ile Arg Ser Glu Lys Gln Lys Ser Ser Thr Glu Leu Leu Lys Asn 1285 1290 1295
- Met Ile Asp Glu Trp Asp Ser Leu Phe Ala Lys Glu Val Asn Leu Val 1300 1305 1310
- Leu Phe Lys Ser Tyr Tyr Leu Leu Thr His Glu Val Ser Val Asp Pro 1315 1320 1325
- Gly Phe Gln Ala Cys Tyr Glu Ala Leu Leu Glu Gln Ile Thr Pro Val 1330 1335 1340
- Ile Glu Arg Leu Asp Tyr Ser Phe Val Tyr Ser Phe Cys Lys Ser Asn 1345 1350 1355 1360
- Ser Asn Ile Thr Leu Asp His Leu Cys Asn Phe Leu Phe Lys Gln Leu 1365 1370 1375
- Tyr Ser Val Gln His Ser Val Arg Leu Ser Ala Val His Ser Leu Arg 1380 1385 1390
- Gln Leu Thr Pro His Phe Val Ala Asp Asp Ile Glu Leu Asn Glu Lys 1395 1400 1405
- Gln Ser Glu Ser Leu Asp Ala Ser Thr Thr Ile Cys Lys Trp His Phe 1410 1415 1420
- Leu Asn Arg Phe Glu Asp Tyr Leu Thr Arg Tyr Asp Ala Leu Ile Thr 1425 1430 1435 1440
- Lys Tyr Leu Glu Glu Phe Thr Phe Lys Leu Ser Glu Leu Asp Asp Leu 1445 1450 1455
- Glu Pro Ile Asp Arg His Asn Ala Leu Ser Tyr Leu Phe Leu Trp Asp 1460 1465 1470
- Cys Ile Ile Asn Ala Cys Ala Lys Ser Pro Val Ala Leu Arg Ala Val 1475 1480 1485
- Tyr Thr Asn Trp Leu Asn Asp Asn Lys Tyr Glu Glu Asn Phe Leu His 1490 1495 1500
- Phe Leu Phe Arg Ala Met Pro Val Asp Ile Leu Lys Asn His Gly Ala 1505 1510 1515 1520
- Lys Val His Ser Asn Gly Val Tyr Lys Glu Leu Thr Trp Ser Gln Gln
 1525 1530 1535

Lys Asp Arg His Leu Pro Leu Glu Arg Tyr Ala Cys His Leu Tyr Thr 1540 1545 1550

Glu Val Leu Arg Lys Leu Pro Ala Val Val Arg Arg Trp Trp Asn Ala 1555 1560 1565

Thr Gln Ser Arg Gln Lys Asn Phe Ile Asp Asn Leu Thr Thr Asn Tyr 1570 1575 1580

Val Ser Ser Leu Ile Cys Ser Glu Glu Leu Lys Ala Ile Ala Asn Arg 1585 1590 1595 1600

Lys Glu Lys His Glu Asn Met Gln Val Thr Val His Ser Ser Thr Arg 1605 1610 1615

Glu Val Leu Ala Val Tyr Ala Ile Asp Glu Ala Arg Met Glu Leu Val 1620 1625 1630

Ile Thr Leu Ala Pro Asn Tyr Pro Leu Gly Ala Val Lys Val Glu Cys 1635 1640 1645

Gly Lys Gln Ile Gly Gly Arg Ala Ser Ser Arg Asn Val Gly Met Gln 1650 1655 1660

Leu Thr Ile Phe Leu Thr His Gln Asn Gly Thr Ile Tyr Asp Gly Leu 1665 1670 1675 1680

Thr Met Trp Lys Asn Asn Leu Asp Lys Lys Phe Glu Gly Val Glu Glu
1685 1690 1695

Cys Tyr Val Cys Tyr Thr Val Ile His Gln Glu Thr Cys Gln Leu Pro 1700 1705 1710

Lys Leu Thr Cys Lys Thr Cys Lys Lys Phe His Gly Pro Cys Leu 1715 1720 1725

Tyr Lys Trp Phe Thr Thr Ser Ser Lys Ser Thr Cys Pro Ile Cys Arg 1730 1735 1740

Asn Val Phe 1745

<210> 10

<211> 1566

<212> PRT

<213> Caenorhabditis elegans

<400> 10

Met Lys Ile Cys Phe Phe Phe Pro Pro Lys Arg Ala Gln Lys Trp Gln
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Lys Lys Cys Phe Phe Pro Asn Val Ser Ala Glu Ile Asn Val Ala Ser 20 25 30

- Ser Asn Arg Leu His Gln Val Val Glu Ile Asp Asp Glu Thr Arg Ile 35 40 45
- Val Met Lys Lys Leu Thr Lys Lys Asp Cys Gln Thr Arg Glu Lys Gly 50 60
- Leu Lys Glu Leu Met Glu Leu Ile Asn Thr Glu Asn Ser Ser Ile Glu 65 70 75 80
- Ser Ser Tyr Glu His Phe Cys Gly Leu Val Ala Gln Leu Thr Thr Asp 85 90 95
- Gly Ser Pro Thr Val Arg Met Leu Thr Met Lys Val Ile Ser Gln Phe 100 105 110
- Leu Thr Lys Leu Lys Lys Ser Ala Ser Lys Gly Leu Lys Lys Ile Ile 115 120 125
- Pro Phe Val Leu Phe Ala Lys Ser Asp Val Thr Asn Gly Val Ala Ala 130 135 140
- Ala Ala Ser Ala Val Ile Arg Asp Gly Phe Asp Ala Asp Lys Lys Arg 145 150 155 160
- Gln Val Val Glu Leu Phe Val Pro Asn Thr Phe Asp Leu Ala Ala Lys 165 170 175
- Ile Ala Glu Gly Lys His Glu Leu Ser Leu Pro Ala Glu Tyr Asp Ala 180 185 190
- Ser Glu Asp Leu Glu Thr Arg Lys Met Arg Leu Glu Thr Gln Ser Leu 195 200 205
- Asn Thr Phe Leu Ser Tyr Ile Lys Glu Tyr Gly Asn Glu Ser Lys Leu 210 215 220
- Trp Glu Glu Pro Ala Arg Lys Leu Phe Ser Asn Ser Glu Phe Ile Lys 225 230 235 240
- Lys Thr Phe Ala Gly Lys Lys Glu Ala Leu Lys Val Gln Leu Leu Asn 245 250 255
- Ile Ser Tyr Lys Phe Ser Asp Asn Ile Glu Val Ile Leu Ser Asn Pro 260 265 270
- Val Ile Ser Thr Tyr Ile Gln Ala Ser Leu Asp Ala Gln Thr Phe Ser 275 280 285
- Thr Glu Cys Ala Thr Ala Trp Glu Gly Ile Leu Ile Leu Leu Pro Asp 290 295 300
- Glu Arg Phe His Ala Lys Cys Ser Leu Gln Lys Gly Ile Tyr Pro Arg 305 310 315 320

- Leu Leu Asn Leu Ile Arg Lys Lys Gly Asn His Trp Arg Val Leu Lys 325 330 335
- His Tyr Leu Leu Pro Ala Val Ser Val Leu Leu Gln Lys Leu Glu Asn 340 345 350
- Pro Ala Leu Ile Thr Ser Ile Ile Thr Ser Phe Thr Asp Asn Leu Pro 355 360 365
- Trp Gln Ala Glu Ala Ser Met Asn Ala Ile His Cys Trp Phe Cys Thr 370 375 380
- Phe Ser Asp Phe Val Lys Trp Ile Leu Gly Asn Asp Arg Ile Asn Leu 385 390 395 400
- Glu Ile Leu Lys Asp Leu Ser Pro Leu Ile Val Glu Met Ser Asn Gln
 405 410 415
- Ser Met His Phe Asn Thr Ala Glu Ala Thr Glu Cys Ile Ser Gly Leu 420 425 430
- Ile His Trp Ile Ile Glu Lys Lys Val Leu Glu Asn Pro Ala Glu Phe
 435
 440
 445
- Phe Asp Leu Leu Lys Thr Ser Ile Tyr Glu Val Ala Pro Pro Glu Lys 450 455 460
- Ser Arg Leu Phe Ala Asp Ser Leu Thr Leu Pro Ala Lys His Leu Glu 465 470 475 480
- Leu Ala His Leu His Gly Asn Leu Leu Ser Asn Pro Asp Val Asp Phe 485 490 495
- His Ile Ile Arg Asn Leu Ala Arg Ala Ser Asn Ser Glu Tyr Phe Glu 500 505 510
- Glu Thr Cys Arg Asn Ile Asn Asn Phe Glu Phe Ile Glu Asn Ser Asp 515 520 525
- Arg Phe Asp Met Leu Gln Ala Val Glu Ile Val Lys Leu Ile Glu Met 530 540
- Lys Pro Ser Leu Ser Leu Gln Ile Lys Asn Asn His Val Gly Arg Gln 545 550 555 560
- Leu Leu Ser Glu Asn Ser Glu Ile Trp Glu Lys Ser Leu Lys Asn 565 570 575
- Val Pro Ala Gly Val Phe Gln Glu Met Val Asn Phe Trp His Glu Lys 580 585 590
- Arg Asn Gly Lys Ala Ile Ala Gln Ala Val Asn Phe Leu Lys Lys Met 595 600 605

- Gly Ile Gln Leu Asp Thr Asn Ala Ala Glu Asn Val Asp Phe Leu 610 615 620
- Ile Ser Leu Leu Gln Ser Leu Asp Ser Lys Glu Asp Pro Glu Glu Arg
 625 630 635 640
- Lys Asn Leu Val Leu Lys Leu Leu Ser Ala Leu Phe Asp Ala Glu Asp
 645 650 655
- Glu Pro Lys Leu Glu His Phe Glu Ser Leu Lys Ser His Leu Asn Gly 660 665 670
- Asp Phe Glu Gln Phe Phe Glu Lys Leu Phe Ala Asn Met Glu Glu Glu 675 680 685
- Asp Ala Glu Arg Val Leu Glu Ile Ala Ala Arg Phe Asp Lys Leu Val 690 695 700
- Gly Phe Cys Asp Ala Asp Ser Arg Gly Glu Ile Ala Gly Lys Met Ile 705 710 715 720
- Leu Gly Arg Arg Glu Phe Asp Glu Met Ser Glu Lys Leu His Phe Leu
 725 730 735
- Glu Leu Asp Val Leu Thr Val Ser Gln His Thr Thr Ile Ile Thr Asp
 740 745 750
- Ala Leu Ser Arg Pro Ile Glu His Leu Glu Glu Lys Glu Ala Thr Lys
 755 760 765
- Met Val Lys Glu Leu Gly Arg Leu Ala Leu Phe Ser Val Ala Ser Asn 770 775 780
- Tyr Asn Ser Ser Ile His Gln Leu Phe Ala Trp Gln Met Ile Arg Val 785 790 795 800
- Ile Ser Ala Leu Gly Asn Arg Tyr Cys Leu Lys Phe Leu Asp Glu Glu 805 810 815
- Leu Gln Gln Leu Arg Ile Glu Leu Glu Lys Arg Val Ile Lys Ser Glu 820 825 830
- Glu Ile Gln Lys Leu Ile Asn Asp Gly Cys Cys Cys Ala Pro Asn Phe 835 840 845
- Ile Thr Asp Thr Tyr Gly Ile Pro Glu Lys Arg Gln Lys Phe Glu Glu 850 860
- Tyr Ser Glu Asp Met Asp Thr Lys Ile Glu Thr Ile Tyr Leu Lys Thr 865 870 875 880
- Asp Thr Pro Leu Glu Tyr Val Glu Lys Val Phe Glu Ala Ser Gln Ser 885 890 895

- Glu Asn Ser Phe Pro Leu Phe Gln Phe Asp Gln Ser Lys Lys Tyr Glu 900 905 910
- Trp Leu Ala Asn Leu Thr Phe Val Lys Arg Phe Ile Gln Cys Gly Gly
 915 920 925
- Glu Ile Phe Arg Ala Glu Asn Leu Glu Phe Arg Asp Phe Thr Leu Cys 930 935 940
- Gly Ile Ile Thr Val Leu Asp Thr Ser Thr Asp Ile Leu Ile Asp Ser 945 950 955 960
- Pro His Ser Phe Ser Glu Asn Pro Leu Leu Glu Ala Leu Thr Thr Leu 965 , 970 975
- Tyr Leu Glu Leu Phe Val Val Leu Thr Asp Ala Thr Lys Arg Gly Ala 980 985 990
- Tyr Ser Glu Gln Ser Val Glu Glu Trp Asn Glu Phe Tyr Thr Pro Thr 995 1000 1005
- Ile His Thr Tyr Cys Ile Arg Leu Phe Arg Thr Ile Arg Arg Asp Gln
 1010 1015 1020
- Gln Pro Thr Pro Phe Val Arg Ala Leu Leu Arg Ala Leu Phe Val Ile 1025 1030 1035 1040
- Ser Glu Phe Pro Thr Ser Phe Ser Asn Asp Asp Asp Val Ala Asn Gln 1045 1050 1055
- Glu Phe Ile Pro Glu Leu Ser Val Phe Lys Tyr Pro Ala Phe Gln Glu 1060 1065 1070
- Ser Cys Ile Ala Gln Ala Phe Ser Leu Phe Ala Ser Asn Asn Glu His 1075 1080 1085
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- Leu Pro Val Ser Thr Asn Arg Arg Lys Leu Ser Leu Pro Val Met Ile 1125 1130 1135
- Ser Lys Ser Tyr Pro Lys Asp His His Asn Pro His Val Gly Pro Leu 1140 1145 1150
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- Phe Lys Asn Ala Leu Asn Ala Leu Met Leu Asp Gln Pro Phe Glu Phe 1185 1190 1195 1200
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- Arg Lys Tyr Gly Thr Pro Gly Leu Asp Ala Ile Asn Leu Cys Leu Lys 1235 1240 1245
- Lys Leu Arg Thr Ser Phe Tyr Ile Leu Leu Lys Phe Gly Phe Val Glu 1250 1255 1260
- Ile Ser Thr Ile Phe Arg Asn Met Asp Arg Lys Lys Ala Glu Ile Phe 1265 1270 1275 1280
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- Gln Glu Arg Ala Tyr Tyr Leu Glu Ser Asp Leu Ser Ala Ser Pro Ile 1345 1350 1355 1360
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- Val Val Glu Glu Thr Lys Met Lys Leu Thr Ile Gly Leu Pro Pro Asp 1445 1450 1455
- Tyr Pro Leu Ser Val Pro Ser Leu Thr Leu Asp Lys Ala Ile Val Lys 1460 1465 1470

Thr Asp Arg Ala Lys Lys Trp Leu Leu Gln Leu Asn Ala Tyr Leu Phe 1475 1480 1485

His Gln Asn Gly Ala Ile Leu Glu Gly Ile Glu Met Trp Lys Arg Asn 1490 1495 1500

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Tyr Phe Phe Asn Asp Ile Phe Leu Leu Cys Trp Ser Gln Ile Tyr Ala 85 90 95

Lys Leu Ile Ile Ser Asp Tyr Lys Val Ile Arg Leu Gln Ser His Gln
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Ile Thr Ile Met Leu Val Lys Ser Leu Arg Lys Lys Ile Ser Lys Phe 115 120 125

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- His Arg Val Ile Ala Ser Ala Val Leu Leu Leu Ile Lys Leu Phe Val 210 215 220
- His Asn Lys Asp Val Ser Glu Arg Asn Ser Ser Ser Leu Lys Val Ile 225 230 235 240
- Leu Ser Asp Glu Ser Ile Trp Lys Leu Leu Asn Leu Lys Asn Gly Gln 245 250 255
- Asn Thr Asn Ala Tyr Glu Thr Val Leu Arg Leu Ile Asp Val Leu Tyr
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- Thr Arg Gly Tyr Met Pro Ser His Lys Asn Ile Met Lys Leu Ala Val 275 280 285
- Lys Lys Leu Leu Lys Ser Leu Thr His Ile Thr Ser Lys Asn Ile Leu 290 295 300
- Lys Val Cys Pro Val Leu Pro Ser Ile Leu Asn Leu Leu Ala Thr Leu 305 310 315
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- Gly Phe Phe Asn Ala Val Phe Ala Leu Tyr Ser Ser Thr Lys Arg His 355 360 365
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- Val Gln Arg Leu Asn Glu Lys Gly Phe Ser Ala Arg Asn Ser Ala Glu
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- Phe Asn Leu Pro Lys Thr Ile Ile Leu Ala Thr Met Asn Glu Leu Asp 595 600 605
- Asn Asp Ile Tyr Gln Gln Leu Met Lys Ser Asp Ser Leu Glu Leu Glu 610 620
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- Glu Ile Phe Lys Gly Asn Asn Lys Phe Leu Asn Gln Arg Thr Ile Thr 645 650 655
- Thr Leu Tyr Arg Ser Ala Val Ala Asn Gly Gln Val Glu Gln Phe Cys
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- Ala Val Leu Ser Lys Leu Asp Glu Thr Phe Phe Ser Thr Leu Leu Leu 675 680 685
- Asn Thr Asp Phe Leu Ser Cys Ala Leu Tyr Glu Val Ser Glu Asp Thr 690 695 700
- Asn Glu Lys Leu Phe Lys Leu Ser Leu Gln Leu Ala Lys Gly Asn Ser 705 710 715 720

- Glu Ile Ala Asn Lys Leu Ala Gln Val Ile Leu Gln His Ala Gln Val 725 730 735
- Tyr Phe Ser Pro Gly Ala Lys Glu Lys Tyr Val Thr His Ala Val Glu 740 745 750
- Leu Ile Asn Gly Cys Asn Asp Thr Ser Gln Ile Phe Phe Pro Ala Asn 755 760 765
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- Leu Phe Leu Asp Ala Leu Leu Asp Ala Leu Pro Glu Arg Val Asn Asn 820 825 830
- His Ile Val Ala Phe Ile Thr Val Val Ser Glu Leu Val Thr Asp Tyr 835 840 845
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- Thr Phe Phe Lys His Gly Lys Val Asn Leu Asn Phe Ser Asp Ile Val 865 870 875 880
- Gly Asn Val Ile Gln Pro Ala Asn Gly Gly Asp Ala Met Leu Thr Phe 885 890 895
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- Leu Leu Met Phe Asn Arg Ser Asn Ser Lys Asp Glu Ile Thr Lys Leu 965 970 975
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- Ile Asp Asp Thr Leu Tyr Leu Leu Glu Leu Arg Ser Ser Cys Leu Asn 1090 1095 1100
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- Ser Glu Tyr Gly Asp Glu Ile Gln Glu Asn Leu Ile Glu Leu Met Phe 1125 1130 1135
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- Asp Val Asn Ser Lys Phe Lys Leu Pro Gln Lys Leu Leu Gln Lys Val 1235 1240 1245
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- Glu Tyr Asn Ile Val Gly Asn Asn Phe Ser Pro Tyr Lys Glu Asp Ile 1330 1335 1340
- Phe Glu Glu Cys Lys Leu Leu Gly His Thr Leu Tyr Gln Leu Phe 1345 1350 1355 1360
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- Arg Thr Leu Gln Asn Asp Ile Glu Lys Phe Val Ser Glu Phe Ile Ser 1380 1385 1390
- Pro Ile Leu Ile Lys Asn Glu Phe Asp Asp Ile Asn Ser Lys Met Asp 1395 1400 1405
- Arg Leu Thr Ser Asn Asp Asp Ala Leu Thr Ile Lys Leu Asn Asn Ile 1410 1415 1420
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- Lys Leu Pro Ser Lys Thr Cys Pro Thr Cys Lys Asn Lys Phe His Gly 1525 1530 1535
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tggcctgtga tctctgtgcc ttttttgact caataactcc agatattgtt gacaatcttc 180
ctgtaaatct catcagtgag tggaaagagt ttttttctaa aggcatccac agtttgctat 240
tacctctttt ggtaaatgct atcggtaagt gcaaaggggt atgatgatgg taattattga 300
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aaatggctgt tgac
<210> 34
<211> 338
<212> DNA
<213> Mus musculus
<400> 34
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agacctatct gaaacgtcct ttcagaacgc aatgctgaaa cccatgtgtg aaacactaac 120
atacatetee aaggaceage tactgageea caageteeet gegagattgg ttgeeageea 180
gaaaacaaac ttgccagagc acctccagac tctgctgaac actttgaccc cactgcttct 240
cttcagagcc agacctgtgc aaattgctgc ttatcatatg ctgtgcaagt aagacattgg 300
cagtggcata agtatttggt ctctaaagca tgatgcat
<210> 35
<211> 175
<212> DNA
<213> Mus musculus
<400> 35
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gaattgccac agcatgatca ggacaatctg aggtcgtatg gagatgaaga ggaagaacca 120
gccttgtaag ggttttgagt gtgtgtttgc ttgtgtgagt gcaggttaca ggacc
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<210> 36
<211> 287
<212> DNA
<213> Mus musculus
<400> 36
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gccgcgctga tgtctctcct cagctctcag gaggagctgc tggagaatgt cctgggctgt 120
gtccctgtgg gccagatcgt gaccgttaag ccactgagcg aggacttctg ctatgtcctg 180
ggatacetee teacttggaa gttaatactg aetttettea aagetgeate gteteaggta 240
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<210> 37
<211> 272
<212> DNA
<213> Mus musculus
<400> 37
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tgtattcaat gtaccttcgg aaaacaaaga gtctgaataa attactctat catctcttca 120
gacttatgcc agaaaaccct acgtacggag agacagctat tgaggtatca agtaaagacc 180
ccaagacctt cttcaccgag gaggttcagc tgagtattag aggtcagtgg gctacacgtg 240
tgtgggctgc acatgtgtgg gctacacgtc tg
<210> 38
<211> 321
<212> DNA
<213> Mus musculus
<400> 38
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tetteegtat catateceae acetggegtg eteggtetat cacatgaett taaaagaett 120
gcctgccatg gttaggctat ggtggaatag cagtgagaag cgtgtcttca atattgtaga 180
tagatttaca agcaagtatg tcagcaatgt tctttctttt caagaaatat cttctgtaca 240
aacaagtaca cagctattca atggcatgac ggttagtatt gtcttggttt ttttctagag 300
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aaatqaatac cagttatatt t
<210> 39
<211> 295
<212> DNA
<213> Mus musculus
<400> 39
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gagctactac tcgagaagtg atggctacgt acaccatcga agacatagtc attgaactca 120
taatacagtt gccttccaat tacccactgg gctcaataac agtggaaagt gggaagagga 180
tcggggtggc tgtgcagcag tggcgaaact ggatgctgca gctgagcacg tacctcactc 240
accaggtatg ctgccacgag cgcactggtc actcacacta gagcacatct gtctg
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<212> DNA
<213> Mus musculus
<400> 40
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attgtatgat ctgcttctca gttattcatg gtttcaacta ttctcttccc aaaaaagcct 180
gtagaacatg caagaaaaag tttcactcag cttgcctggt aaggcgaagg gaaatctctt 240
aacattcttt qtqqtctgta tatgttat
<210> 41
<211> 271
<212> DNA
<213> Mus musculus
<400> 41
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ttacatctag caacaagtcc acttgcccgc tctgccgtga gacctttttc tgaggttttt 120
ttcattggaa gttgtcgctg ccgtaggtca agccaaaggg aatggattgg ctccaccttg 180
aagtactgat gtgaagccag tgagcatgac aaagtgccat ctgtcagtat gatcctcaaa 240
tcaggcaacc tctgcagatt gctttgtaaa t
<210> 42
<211> 42
<212> DNA
<213> Mus musculus
<400> 42
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<210> 43
<211> 42
<212> DNA
<213> Mus musculus
<400> 43
                                                                    42
cttcttcagg tcattgaaaa ggaattttag ccccctctcc cc
<210> 44
<211> 286
<212> DNA
<213> Homo sapiens
<400> 44
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acagggtggg tggcggaaaa gggcccgggg gaagttatta cagggtgtcc tcttccgccg 120
ccagaagccg gaagttgtgt cccggacgtg tcaaccgggg tctgagtgct cagagtacag 180
 ctgcaaccgc gaccatgggc gggaagaaca agcagcgaac taaagggaac ctgagggtga 240
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286
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<211> 304
<212> DNA
<213> Homo sapiens
<400> 45
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gtggccgagc tgcagaactc cttgccaaag aacagggaac agtgcctgga tttattggtt 120
ttggaacatc tcagagtgac ctaggctatg ttcctgctat tcaaggagct gaagaaattg 180
acagtettgt agattetgat tteegaatgg tgetgeggaa aettteaaag aaagatgtea 240
ccacaaaatt aaaagcaagt tttcttgttt tcataaaaat tatcaagaaa atccctttgt 300
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taaa
<210> 46
<211> 199
<212> DNA
<213> Homo sapiens
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ggccaagaat tttttgcaaa atttcacttg taagtattaa aactttgcta gtttatttct 180
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qttqtatatt ttttggttg
<210> 47
<211> 331
<212> DNA
<213> Homo sapiens
<400> 47
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gtcgcgtccg agaagccaca caacaagctt ttgaaaaact tatccttaaa gtaaagaaac 120
agttggctcc ctacttaaaa agtttaatgg gatattggct aatggctcag tgtgatactt 180
acacaccage tgegtttgca gcaaaagatg catttgaage ggetttteet ccaagcaage 240
aacctgaagc catagcattt tgtaaggatg aaattacaag tgtaagttct ggaatcattc 300
                                                                    331
tgaatctatt ttttttttt aagtatttaa g
<210> 48
<211> 153
<212> DNA
<213> Homo sapiens
<400> 48
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atcatcttat aaaagaaaca cctgatacac tcagtgaccc gcagtaagtt gtattgtttc 120
                                                                    153
attgtaactc atgttaagga tttgtttcac tca
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<210> 49
<211> 281
<212> DNA
<213> Homo sapiens
<400> 49
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gaggaagaaa gagaagctaa attctaccgg gttgtaactt gttccttatt ggcattaaag 120
agattacttt gccttttacc tgataatgag cttgattctc tggaggagaa atttaagtct 180
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tcttttttat cttaagacat ttctctgatt ccttaccccc a
<210> 50
<211> 274
<212> DNA
<213> Homo sapiens
<400> 50
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cttattttga gttagtctct gcattgtgcc agcgcattcc acagttgatg aaagaggaag 120
catccaaagt gagcccatca gttctactta gcattgatga cagtgaccca attgtctgcc 180
cagctctctg ggaagctgta ctctatacac ttacaactat tgaggtatgt aagagaggca 240
catttagtac actgaggaat gaacctatga gata
<210> 51
<211> 291
<212> DNA
<213> Homo sapiens
<400> 51
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ttcatgtaaa tgcaaaaaag agtgtgtttc ccaagctatc aactgtgatt cgtgaaggtg 120
gtcggggtct agctactgtc atatatcctt accttctgcc attcatcagc aagctccctc 180
agtocatoac aaatocaaag ttggatttot toaaaaattt cotcacgtot ctagttgctg 240
ggtaagtaat ttaaattttt gatttttaaa acaaaacaga ttttcttgtt t
                                                                   291
<210> 52
<211> 236
<212> DNA
<213> Homo sapiens
<400> 52
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gagagaacta aaaccagctc tttagagtcc tcggcagtaa tatctgcttt ttttgaatgc 120
ttacgtttta taatgcagca aaacttaggt gaggaagaga ttgaacagat gctcgtcaat 180
gatcaggtat ctataatgta aaagtcgtca gtctctttgc atactgatta tgtagg
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<210> 53
<211> 910
<212> DNA
<213> Homo sapiens
<400> 53
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ttattgatgc agttctcaaa gacccaggat tgcaacatgg gcagctattt aaccatttag 120
cagaaactct aagttcctgg gaagccaaag cagacacgga aaaagatgaa aaaacagctc 180
acaacttgga gaacgtactg atacatttct gggaaagact gtcagagatc tgtgttgcga 240
aaatcagtga gccagaagct gatgttgagt ccgttttggg tgtatctaac ctattacagg 300
tgcttcagaa gccgaagagc tcattgaagt caagtaaaaa aaaaaatggt aaggttagat 360
ttgctgatga gatacttgaa agcaataaag agaatgaaaa atgtgtatct tcagaaggag 420
agaagattga aggctgggaa ttaacaactg aaccttctct cactcataat tcttcaggcc 480
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gtattaatta tgtcaatgaa cgaaagtcag agcaacatct aaggtttctt tctactctgc 600
ttgactcctt ttcttcaagc cgagtattta aaatgctact tggtgatgaa aaacagagta 660
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ttttatacca gaaactgata ggttggctaa atgaagatca aaggaaggat tttggtttcc 780
tggtggacat tttgtacagt gctctccggt gctgtgacaa tgatatggaa agaaaaaaag 840
tcttggatga tctaaccaag gtattcctgt tgtatatctt ttcaaactat ttgaataata 900
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<212> DNA
<213> Homo sapiens
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aatggaattc tcttcttaag attattgaaa aggtatctta gggatttttt tttcttttt 120
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tttttgtatt tatgggaata ga
<210> 55
<211> 290
<212> DNA
<213> Homo sapiens
<400> 55
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gttcagataa acatgcttta gtaactcctt ggctcaaagg cgatatcctt ggtgagaaat 120
tggtcaactt ggcagattgt ctttgtaatg aggacttgga atccagggta tcttcagaat 180
ctcacttctc agaaagatgg actcttctaa gcttggtatt atcccaacat gttaaaaatg 240
qtaqqacaaa tatggctttt gttttctaat ggggaatagt ccatttctcc
<210> 56
<211> 340
<212> DNA
<213> Homo sapiens
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<400> 56
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gaaattatca gaagctgaaa gcagtgactc atcagtgtct tttatctgtg atgtggccta 180
taactatttc agctcagcga aaggatgctt gctaatgcca tcatctgaag atttattatt 240
aactctcttt cagttatgtg ctcagagcaa agaaaaaaca catttgccag gtaatagcct 300
actgctcaaa tgttttgttg ggaatctccg gctctgacct
<210> 57
<211> 254
<212> DNA
<213> Homo sapiens
<400> 57
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ctgtaaactg aaaaatactt ggctctctgg tgtaaattta ttggttcatc aaactgacag 120
ttcatataaa gagagtacct tcctacattt gtctgctctg tggctgaaga accaagttca 180
ggcttcatct ttggatatca acaggtaacc ttttttgagc ttggtttcag tgtctctttt 240
atacttgaac agtg
<210> 58
<211> 245
<212> DNA
<213> Homo sapiens
<400> 58
aactagtcat agcgtaacta caacagttaa gttctctgca ttatttttag tctccaagtc 60
ctcttgtctg ctgttgatga tttgctaaat acacttctag agagtgaaga ttcttatctt 120
atgggagttt atattggaag tgtaatgccg aacgacagtg aatgggaaaa gatgaggcag 180
tetetteeta tgcaggtatt ttggaaattg aagagtacat ateteattet gaagtttgga 240
                                                                   245
tttca
<210> 59
<211> 287
<212> DNA
<213> Homo sapiens
<400> 59
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gacctctttt agagggaaga ttgagtttga attatgaatg tttcaaaaca gattttaagg 120
aacaggacat aaagacactt cccagccatt tgtgtacttc agcattattg agcaaaatgg 180
tcttaattgc actgagaaag gaaacagtct tagaaaataa tgagcttgag aaaataagta 240
                                                                    287
agtatatatg agtatttaca tataacataa tgcatgaatg aatataa
<210> 60
<211> 260
<212> DNA
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<213> Homo sapiens

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<400> 60
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gctttattca ctgcagtggt gtgaagaatt agataaccca cctatttttc taattggatt 120
ttgtgaaata cttcaaaaaa tgaatattac gtatgataac ttacgtgtac ttggtaatac 180
gtcgggcctt ttgcagctgt tatttaacag gtaagaatct ctttcaattt gtttttaaaa 240
tgactatgct acttctttat
<210> 61
<211> 205
<212> DNA
<213> Homo sapiens
<400> 61
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catggcacac tgtggtctct tattattgct aagttgatcc tttcccgaag catttcatct 120
gatgaagtaa aaccacatta taagagaaaa gaaaggtatt cttatttaaa atgtttttac 180
tttgtagttt actgtaatcg gtcac
<210> 62
<211> 243
<212> DNA
<213> Homo sapiens
<400> 62
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ctaactgaag gcaatttgca taccattcaa agtctatgtc catttttgtc aaaagaagaa 120
aagaaagaat ttagtgctca atgtatacct gctcttttgg gctggactaa gaaagatctt 180
243
gat
<210> 63
<211> 236
<212> DNA
<213> Homo sapiens
<400> 63
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acatettgee atttteaatt ettgtetgea aaccaaaagt atagatgatg gagagetatt 120
acatggaata ttaaaaatca taatatcctg gaagaaagag catgaagata ttittctttt 180
cagttggtag gtgatacttt atactatgtt tttccttcag tatacaattc,agacaa
 <210> 64
 <211> 245
 <212> DNA
 <213> Homo sapiens
 <400> 64
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 gaagcaagtc cagaggtact gggtgtaaat atagaaataa tccggtttct ttccctattt 120
 ctgaaatact gctcatcccc tttggcagag agtgagtggg acttcatcat gtgctccatg 180
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tactt
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<212> DNA
<213> Homo sapiens
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agaatcaggc attgtattct attccacttg tgcaactgtt tgcctgtgtc agctgtgatt 120
tggcctgtga cctcagtgct ttctttgatt ccacaactct ggataccatt ggcaatcttc 180
ctgtaaatct aatcagtgaa tggaaagaat ttttttccca aggcatccac agtttgcttt 240
tacctatttt ggtgactgtt acaggcaagt gaaaaaggga ataatagtga gattgattca 300
ttggaaatga ctta
<210> 66
<211> 338
<212> DNA
<213> Homo sapiens
<400> 66
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agatgtgtct gaaacatcct ttcagaatgc aatgctgaaa cccatgtgtg aaacattaac 120
gtatatetea aaggaacage tattgagtea caaaetteet geaagattag ttgetgaeca 180
aaaaacaaac ttaccagaat atctccagac tttgttaaat acattggccc cattactcct 240
cttcagagct aggcctgtgc aaattgctgt ttatcatatg ctatacaagt aagaattcat 300
                                                                   338
ccaattgaat caatgttaca gtggtctaaa aaaataga
<210> 67
<211> 175
<212> DNA
<213> Homo sapiens
<400> 67
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gaattaccac agtatgatca ggataatcta aagtcatacg gagatgaaga agaagagcca 120
gccttgtaag gtttttttaa ataatttgtt ttattaaatt cttataatcc atctc
<210> 68
<211> 287
<212> DNA
<213> Homo sapiens
<400> 68
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gcagcactga tgtctcttct tagcattcaa gaggacttac tagaaaatgt tttggggtgt 120
attcctgttg gacagatagt tactattaaa ccactgagtg aagacttctg ttatgttctg 180
ggatacette teaettggaa attaatacta aetttettea aagetgeate ateaeaggta 240
aataaatatg tgacaacttt cgatagttct gtcctaatat gcttctg
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<210> 69
<211> 272
<212> DNA
<213> Homo sapiens
<400> 69
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tgtattccat gtatcttcgg aaaacaaaga gtttgaataa attgctctat cacctgttca 120
ggcttatgcc agaaaatcca acctatgcag agacagcagt tgaggtccca aataaggacc 180
ctaaaacatt ctttactgag gagctccagc tgagtattag aggtcagtaa gatatgtgtt 240
tatgttcttt cttggacact agattcagac ta
<210> 70
<211> 321
<212> DNA
<213> Homo sapiens
<400> 70
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gettecatae cacattecae aettggettg tteagtetat catatgaeat taaaagaett 120
gcctgccatg gttaggttgt ggtggaatag cagtgagaag cgtgttttca atattgtgga 180
tagatttaca agcaagtatg tcagcagtgt tctttctttt caagaaatat cttctgtaca 240
aacaagtaca caactattta atggcatgac ggttagtatt gtcttgactt tctctagaaa 300
agttgtttta atattgggta t
<210> 71
<211> 295
<212> DNA
<213> Homo sapiens
<400> 71
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gagctactac tcgagaggta atggctactt atactattga ggacatagtt attgaactta 120
taatacaact gccttcaaat tatccactgg gttcaataat agtagaaagt gggaaaagag 180
taggagtagc tgttcagcag tggcggaact ggatgctgca gttaagcact tacctcaccc 240
atcaggtaag tttctgttta cacatttggc tttacaaact tggaaaagat gatct
<210> 72
<211> 268
<212> DNA
<213> Homo sapiens
<400> 72
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ttatggaagg cttagcttta tggaaaaata acgtagacaa acgttttgag ggtgttgaag 120
gtagaacatg caagaaaaaa ttccattcag cctgcttggt aagtctaaag agaaattaac 240
ttacttatat tttatgtatt ttatacac
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<210> 73
<211> 163
<212> DNA
<213> Homo sapiens
<400> 73
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ttacatctag caacaaatcc acttgtccac tgtgtcgtga gacgtttttc tgagattttt 120
ttcactggaa gggatccctg aagtacatca aacaaaggca ttg
<210> 74
<211> 44
<212> DNA
<213> Homo sapiens
<400> 74
                                                                    44
cttcttaaga ttattgaaaa ggtatcttag ggattttttt ttct
<210> 75
<211> 44
<212> DNA
<213> Homo sapiens
<400> 75
                                                                    44
cttcttaaga ttattgaaaa ggaatcttag ggattttttt ttct
<210> 76
<211> 22
<212> DNA
<213> Mus musculus
<400> 76
                                                                     22
cattgaaaag gtattttagc cc
<210> 77
<211> 22
<212> DNA
<213> Mus musculus
<400> 77
                                                                     22
cattgaaaag gtattttagc cc
 <210> 78
 <211> 22
 <212> DNA
 <213> Mus musculus
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<400> 78
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cattgaaaag gaattttagc cc
<210> 79
<211> 22
<212> DNA
<213> Mus musculus
<400> 79
                                                                   22
cattgaaaag gaattttagc cc
<210> 80
<211> 4
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic zinc
      finger motif
<400> 80
Cys Cys His His
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